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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/910,497	07/19/2001	John W. Evans	97541.00007	9692	
21832 MCCARTER	7590 07/10/2007 ER & ENGLISH LLP		EXAM	EXAMINER	
CITYPLACE I			KHAN, AMINA S		
185 ASYLUM STREET HARTFORD, CT 06103		•	ART UNIT	PAPER NUMBER	
· · · · · · · · · · · · · · · · · · ·			1751		
•			MAIL DATE	DELIVERY MODE	
			07/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		09/910,497	EVANS ET AL.			
		Examiner	Art Unit			
		Amina Khan	1751			
Period f	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the o	correspondence address			
WHIII - Extending - If No - Fail Any	CHEVER IS LONGER, FROM THE MAILING DATES OF THE MAILING OF T	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be till will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status		•				
1)⊠	Responsive to communication(s) filed on 16 Ap	oril 2007				
2a)⊠		action is non-final.	•			
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
-,	closed in accordance with the practice under E	·				
Disposi	ion of Claims	, , , , , , , , , , , , , , , , , , , ,				
4)⊠ Claim(s) <u>1-3,6-13,27,40-42 and 44-50</u> is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)🖂	⊠ Claim(s) <u>13</u> is/are allowed.					
6)⊠	S)⊠ Claim(s) <u>1-3,6-12,27,40-42 and 44-50</u> is/are rejected.					
. 7)						
8)[Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	tion Papers					
9)[The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ob-	ojected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents					
	3. Copies of the certified copies of the prior application from the International Bureau	· ·	ed in this National Stage			
*	See the attached detailed Office action for a list	, , , ,	ed.			
;	233 the diagnost detailed office detion for a list	a. a.o obraniou dopico not receiv	 			
Attaab	nt/s)					
Attachme 1) Noti	ce of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date <u>4/16/07</u> .	5) Notice of Informal I 6) Other:	Patent Application			

1. This office action is in response to applicant's amendment's filed on April 16,

2007.

2. Claims 1-3,6-13,27,40-42 and 44-50 are pending. Claims 4,5,14-26,28,29-39 and

43 have been cancelled. Claims 13,27,40 and 42 have been amended.

3. Claims 1-3, 6-12, 27, 40-42 and 44-50 stand rejected under 35 U.S.C. 103(a) as

being unpatentable over Evans (WO 96/37570) for the reasons set forth in the previous

office action. The rejection of the claims is maintained.

Allowable Subject Matter

4. Claim 13 is allowed. Claim 13 is allowed over the prior art of record because the

prior art does not teach non-aqueous heat transfer compositions comprising the claimed

percentages of ethylene glycol and propylene glycol as claimed in claim 13.

Response to Arguments

5. Applicant's arguments regarding Evans (WO 96/37570) have been considered

but they are not persuasive. The declaration under 37 CFR 1.132 filed April 16, 2007 is

insufficient to overcome the rejection of claims 1-3, 6-12, 27, 40-42 and 44-50 based

upon Evans (WO 96/37570) as set forth in the last Office action because: the prior art

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range of "at least 40% PG" leaving room for 60% or less EG and the instantly claimed "greater than 60% ethylene glycol" are not patentable distinct.

The applicant argues:

"The examiner's argument that there is a prima facie case of obviousness established because the range in Evans WO96/37570 is sufficiently close to the claimed range that one skilled in the art would have expected them to have the same properties is also misplaced. As explicitly stated in Evans WO96/37570 and in the Declaration of John Evans submitted herewith, one skilled in the art expected that a nonaqueous EG/PG heat transfer fluid could not contain more than 60% by weight ethylene glycol due to unacceptably high oral toxicity. As explained in the Evans Declaration, at the time of Evans WO96/37570, those skilled in the art believed that addition of EG to a heat transfer fluid would increase the toxicity of the fluid to unacceptable levels. Therefore, one skilled in the art did not expect that higher levels of EG in the heat transfer fluid would result in a fluid that had the same properties regarding toxicity. To the contrary, the expectation was that higher levels of EG resulted in unacceptably high toxicity. The presently claimed invention is based upon the unexpected discovery that non-aqueous EG/PG heat transfer fluids can contain greater than 60% EG with much lower oral toxicity than was expected or predicted."

The examiner asserts that the ranges of 60% and just slightly greater than 60% such as 60.0000001% would have similar properties. The examiner argues a prima facie case of obviousness exists where the claimed ranges and prior art ranges do not overlap but are close enough that one skilled in the art would have expected them to have the same properties, see Titanium MetalsCorp. of America v. Banner, 778F.2d 775, 227 USPQ 773 (Fed. Cir. 1985). See MPEP 2144.051.

The applicant has not provided the spreadsheet as indicated in the declaration paragraph 6.

The examiner asserts that all disclosures of the prior art, including non-preferred embodiment, must be considered. See In re Lamberti and Konort, 192 USPQ 278 (CCPA 1967); In re Snow 176 USPQ 328(CCPA 9173). Furthermore, nonpreferred embodiments can be indicative of obviousness, see Merck & Co. v. Biocraft Application/Control Number: 09/910,497

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Laboratories Inc. 10 USPQ 2d 1843 (Fed. Cir. 1989); In re Lamberti, 192 USPQ 278 (CCPA 1976); In re Kohler, 177 USPQ 399.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amina Khan whose telephone number is (571) 272-5573. The examiner can normally be reached on Monday through Friday, 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas McGinty can be reached on (571) 272-1029. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Amina Khan, PhD July 6, 2007

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